

INSTRUCTIONS FOR SECTION A FACILITY INFORMATION

Facility ID Number: The facility ID number is to be noted at the top of each page throughout the entire application. This number is the license number assigned to an existing facility or the name of the facility in the case of a new source.

Page Number: This is to be filled out by the applicant as a sequential system of numbering all pages included in the application.

Facility Information

Facility Name: The actual facility name, not the corporate or other name, as it would appear on a license.

Street Address: The physical location of the facility.

City/Town, County, Zip Code: City/Town name, County and nine digit zip code of the facility location.

Owner/Firm Name: The name of the owner or the firm that owns the facility.

Facility and Application Description: A description of the facility operations and the purpose for this application.

Current License Number: (if an existing facility) The number of the Air Emission License the facility is currently operating under.

Application Number: To be filled in by the Department.

Chapter 140 and Chapter 115 Checklist: Check the appropriate box for the type of application being filed for. (Please specify other, if applicable)

Facility Contact Mailing Address

Name: Person familiar with the application and plant operations.

Affiliation: Name of affiliated company, if the same state "same".

Title: Title/position of contact person.

Telephone Number: Area code, number and any extension of the person named as contact.

Fax Number: Area code and number of the person named as contact.

Street Address: The address at which the contact is located.

City/Town, State, Country, Zip Code: City/Town, State, Country and nine digit zip code of the contact location.

Facility Classification: Check the appropriate box for the type of facility applying for the license (please specify other, if applicable).

Application Contact Mailing Address

Name: Person who completed the application.

Affiliation: Name of affiliated company, if the same state "same".

Title: Title/position of the person who completed the application.

Telephone Number: Area code, number and any extension of the person who completed the application.

Fax Number: Area code and number of the person who completed the application.

Street Address: The address at which the person who completed the application is located.

City/Town, State, Country, Zip Code: City/Town, State, Country and nine digit zip code of the location of the person who completed the application.

Owner/Firm Contact Mailing Address

Name: Name of individual or corporation that owns the facility.

Affiliation: Name of affiliated company, if the same state "same".

Telephone Number: Area code, number and extension of the owner.

Fax Number: Area code and number of the individual or corporation.

Street Address: The address at which the owner/firm is located.

City/Town, State, Country, Zip Code: City/Town, State, Country and nine digit zip code of the location of the owner/firm.

Owner Classification: Check the appropriate box for the classification of the owner (please specify other, if applicable).

Corporate Legal Staff Mailing Address (if needed)

Name: Name of the legal staff representing the applicant.

Affiliation: Name of affiliated company, if the same state "same".

Telephone Number: Area code, number and extension of the representative for legal staff.

Fax Number: Area code and number of the representative for legal staff.

Street Address: The address at which the legal staff is located.

City/Town, State, Country, Zip Code: City/Town, State, Country and nine digit zip code of the location of the legal staff.

Certification: A required signature under this section certifies that all of the information supplied in this application is true, complete and accurate.

INSTRUCTIONS FOR SECTION B PLANT OVERVIEW

Provide a summary of all SIC (Standard Identification Code) Codes that are pertinent to the facility and a description of the process.

Provide a summary of all Emission Units, not including insignificant activities, listed in the application. Also, do not list those items exempt from the licensing program. See Appendix B of Chapter 140 for a list of insignificant activities.

List Emission Unit number, stack number or vent number and Emission Unit description. Use sequential numbering, do not repeat numbers (except for common stacks). You may use in-house identification labels. For Emission Units without stacks or vents, use a.v. (ambient ventilation) for stack number. In general, list Emission Units separately; do not combine units in one entry.

The definition of an Emission Unit is:

Any equipment or pollutant-emitting activity of a source which emits or would have the potential to emit a regulated pollutant or hazardous air pollutant. This term is not meant to alter or affect the term 'unit' for purposes of Title IV of the CAA.

INSTRUCTIONS FOR SECTION C CHECKLIST

1. **Application Checklist:** This is a list of all material required to be submitted as part of the application package. Please check off all of the boxes relating to the material accompanying this application to certify that the information is complete and accurate.

For sources subject to Chapter 140, check off any states that may be affected by the emissions proposed by this application or that are within 50 miles of the source.

The address for EPA is:

US Environmental Protection Agency
Region I
J.F. Kennedy Federal Building
Boston, MA 02203-2211

The address for some of the affected states are:

State of New Hampshire
Department of Environmental Services
Air Resources Division
64 North Main Street
Caller Box 2033
Concord, NH 03301-2033

State of Vermont
Department of Environmental Conservation
Air Pollution Control Division
Building 3 South
103 South Main Street
Waterbury, VT 05671-0402

State of Massachusetts
Department of Environmental Protection
Division of Air Quality Control
One Winter Street
7th Floor
Boston, MA 02108

2. **Insignificant Activities:** List all emission units, stack number, description and reason for exemption for all activities proposed to be exempt as "insignificant" pursuant to Chapter 140, Appendix B, Section (B).

Note: Insignificant activities listed in Chapter 140, Appendix B, Section A are not required to be listed in the application.

INSTRUCTIONS FOR SECTION D GENERAL APPLICABLE REQUIREMENTS

The licensing regulations require, among other things, that subject facilities certify compliance with all state air pollution control regulations and requirements. Many of the state air pollution regulations are generic or do not relate to specific Emission Units. Therefore, part of this section is designed to certify facility compliance with these regulations.

If one of these requirements is relevant to your facility and you are not in compliance, be sure to include, in Section K, a description of the noncompliance and measures to come into compliance.

1. **Inspection Certificate, Recordkeeping and Reporting:** Indicate whether or not the facility files an annual Emission Statement. If not, indicate the reason for not filing. (Chapter 137)

2. **Hazardous Air Pollutants:** Indicate if the facility, as a whole, has the potential to emit 10 tons or more of a single HAP or 25 tons or more of all HAPs combined. If so, list the HAPs and source (Emission Unit) of emissions.

3. **Prevention of Accidental Release:** Indicate if the facility is subject to Section 112 (r) of the CAAA.

4. **Stratospheric Ozone:** Indicate whether or not the facility is in compliance with the regulation concerning use of the Class I or Class II compounds and maintenance, repair, servicing of equipment that utilizes a Class I or Class II compound or if there are no such applicable activities conducted at the facility. (If not in compliance list under Section K (III))

5. **Regulations:** Check off all Maine Air Regulations the facility may be subject to.

INSTRUCTIONS FOR SECTION E EMISSIONS UNIT - FUEL UTILIZATION EQUIPMENT

Section E asks for information that describes the Emission Unit and requirements/limits on the unit. This information is used to determine the applicability of the unit to regulations and also becomes the description of the approved unit.

Section E is divided into three (3) parts:

- I. Equipment Description**
- II. Applicable Requirements/Limitations**
- III. Compliance Demonstration**

Except as described in the instructions for parts II and III, none of these questions are intended to impose additional requirements on the Emission Unit; they are merely descriptions of the type and size of the Emission Unit and existing requirements. If a question is not relevant enter "**not applicable**" in the space provided.

One of these sections (comprised of three parts) must be completed for **EACH** individual Emission Unit listed in the Plant Overview (Section B). Make as many copies of the appropriate sections as necessary. Use a separate copy of the section for each Emission Unit.

Do not use Section E for fuel burning equipment integral to a process, such as a drying oven on a fabric coater, unless you wish it to be a separate Emission Unit. Instead complete the section for Process Equipment (Section F) and fill out the section, "Associated Fuel Burning Equipment".

Section E : I. Equipment Description

Emission Unit Number: Indicate the Emission Unit number described by this section. The Emission Unit number must correspond to the numbers listed in Section B - Plant Overview. This appears at the top of each page in this section and is to be filled in.

1. **Type of Equipment:** Describe the type of combustion equipment (i.e. boiler, diesel engine, etc.).

2. **Manufacturer:** Manufacturer of the unit.
3. **Model Number:** The manufacturer's model number for the unit. Do not use the serial number.
4. **Maximum Input Rating:** Indicate the maximum design input rating for the unit in MMBtu per hour.
5. **Burner Manufacturer:** Manufacturer of the burner.
6. **Model Number:** The manufacturer's model number for the burner. Do not use the serial number.
7. **Number of Burners in Combustion Unit:** Indicate how many burners are present in the unit.
8. **Fuels:** For the primary and any secondary fuels used in the Emission Unit, provide:
 - A. **Type and Grade:** Indicate if oil, natural gas, propane, coke, wood, anthracite coal, waste oil, waste solvent, etc. Also indicate grade of oil, #2, #4, #6, etc. Information may be obtained from supplier.
 - B. **Sulfur Content:** Maximum percentage of sulfur (by weight) in the fuel used for this unit. Do not indicate the average sulfur content of fuel supplied in this question. For example, No 6. fuel oil can have up to 1.0 % sulfur in some cases, though the average percent sulfur of the fuel supplied to the facility may be under 0.9%.
 - C. **Maximum Fuel Firing Rate:** The maximum fuel firing rate for all burners in this unit combined (per hour). Be sure to include units (gal./hr, cubic feet/hr, ton/hr, etc.).
9. **Air Pollution Control Equipment:** For any air pollution control equipment associated with this Emission Unit, provide:
 - A. **Type:** For example, electrostatic precipitator, baghouse, cyclone, scrubber, afterburner, adsorber, etc.
 - B. **Manufacturer/Model:** Manufacturer and model of the control equipment.
 - C. **Pollutant Controlled:** The pollutant(s) that are controlled, for example, Particulate Matter (PM), VOC, Oxides of Nitrogen (NOx), etc.
 - D. **Efficiency:**

Capture Efficiency: From 0 to 100%, indicate the minimum percent of total emissions from the Emission Unit that must be captured by the ventilation/duct system and conveyed to the control equipment, as required by license, design or other requirement.

Control Efficiency: From 0 to 100%, indicate the minimum percent of emissions conveyed to the control equipment that must be reduced by the control equipment, as required by license, design or other requirement.

10. **Dates:**

Date of Installation: Date or dates when the Emission Unit and/or control equipment was installed. Include day, month and year, if known.

Date of Manufacture: Date when the Emission Unit and/or control equipment was manufactured. Include day, month and year, if known.

11. **Stack Data:** For the stack (if any) discharging to the ambient air provide;

A. **Dimensions:**

Height (feet): Height, above ground level (AGL), of the top of the stack.

Diameter (inches): Give the inside diameter (ID) of the stack at its exit point. If the stack is not circular give the inside length and width of the stack at the exit point.

B. **Range of Gas Exit Velocity (fps):** The range of exhaust exit velocity from the stack.

C. **Range of Exit Temperature (°F):** The range of temperature of the exhaust from the stack.

D. **Stack Material of Construction:** Material of construction for the stack (steel, refractory lined brick, etc.).

Section E : II. and III. Applicable Requirements/Limitations and Compliance Demonstration

In this section, provide information related to regulations/limitations and monitoring and record keeping affecting the Emission Unit. In addition to limits in any license for the unit, limits may be found in a regulation or other requirements.

None of these questions are intended to impose additional requirements on the Emission Unit except as provided for under Operation Flexibility, New Restrictions or Federally Enforceable Limits. If a question is not relevant enter "**not applicable**" in the space provided. If there is no limit imposed on the Emission Unit do not enter one here unless you wish to propose one.

Operational Flexibility

To allow for flexible operations, the facility may propose alternative limits in this section, that is, limits that are different from those contained in an existing license or requirement. The DEP will review these alternative limits on a case by case basis for approval. At a minimum, the alternative limits must be equivalent to the existing requirements in terms of resulting emissions and degree of monitoring. Any alternative or flexible limit should be identified as such in the application to distinguish them from current requirements. Some examples of flexible limits are:

- Change in allowable hours of operation from daily limits to an equivalent weekly total.
- Change of an existing license condition that requires the use of a named coating (Brand xyz) to a generic condition that allows use of any coating with the same or less VOC content as Brand xyz.

The DEP reserves the right to deny any such alternative limitations.

Federally Enforceable Limits

Current limits on an Emission Unit or facility may be found unenforceable due to the nature of the limit, the method of limitation or the monitoring of the limit. Common examples include:

- Too long an averaging time; for example, a limit expressed on a yearly instead of 12 month rolling average;
- A limit with no monitoring or record keeping requirement;
- A limit on emissions that cannot be easily verified.

In such cases, the existing limit may have to be modified to remedy such a deficiency. Such modifications, however, will be done to achieve an equivalent, but federally enforceable, limit.

You may propose revised limits for purposes of federal enforceability. Otherwise the Department, as part of its review of your application, will identify those limits that need revision which can then be addressed by the facility in a revision to the application under review.

Refer to the definition of Potential to Emit in DEP regulations for further information on acceptable limitations.

New Restrictions

Facilities are allowed to propose new limitations/restrictions that would establish lower allowable emissions. Such restrictions may be desired to avoid applicability to some regulations or for other reasons.

The DEP reserves the right to deny any such new restriction and to take appropriate enforcement action against the facility if the restriction was required before the submittal of the license application in order to comply with other air pollution control requirements.

II. Applicable Requirements/Limitations

1. **Alternative/flexible limits:** Indicate whether or not any alternative limits are being proposed in this section for purposes of operational flexibility. If so, identify these alternative limits and, if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing limits.
2. **New limits:** Indicate whether or not any new limits are being proposed in this section for purposes of Federal Enforceability or restriction of emissions. If so, identify these new limits.

3. **List applicable requirements:** List all requirements that apply to this Emission Unit. Indicate whether the requirement is State or Federal by denoting (S) or (F).

Note: As an attachment list all applicable requirements for which the facility is not subject to for purposes of seeking a Permit Shield.

4. **Allowable usage limitations:** List all limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Hours of operation:** Indicate any limits on hours of operation. If no limitations exist, enter "**not applicable**."

B. **Fuels used:** Indicate any limits on fuel use. Provide:

Type: Type of fuel limited (#2 oil, natural gas, etc.).

Amount: The amount of the limit, such as 10,000 gallons per year, etc.

Sulfur: The maximum sulfur content, if any, allowed in the fuel under this limit (weight percent).

5. **Other allowable restrictions:** List all other limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Work practices:** List all limits/requirements such as clean up procedures, start up and shut down procedures, etc.

B. **Process parameters:** List all limitations or restrictions such as process temperatures and other parameters, opacity limits, etc.

C. **Control equipment parameters:** List all control equipment limits such as operating parameters (temperature, pressure drop, etc.).

6. **Total allowable emissions:** List allowable emission rates and total emissions from the Emission Unit. List only for those pollutants which have a limit specifically stated in an existing license (i.e. the table need not necessarily be completed for all pollutants). If more than one Emission Unit is included in this allowable rate, note in the margins of the application which units are included.

- A. **Performance Standard:** For each pollutant, list any limit on emission rate such as, lbs per million Btu, ppm, gr/dscf, etc. Be specific in type and limit on the amount to include diluent gas (% corrected to), wet or dry basis and mass or volume basis.
- B. **Mass Emission Rate:** For each pollutant list any limit on emissions less than 12 month, such as a lbs per hour, day or month limit. Be specific in type and limit on the amount.
- C. **Annual:** For each pollutant list any limit on emissions for a 12 month period. Indicate if this is an annual, rolling 12 month, or other limit. Be specific in type and limit on the amount.

III. Compliance Demonstration

- 1. **Alternative/flexible limits:** Indicate whether or not any alternative compliance demonstration is being proposed in this section for purposes of operational flexibility. If so, identify these alternatives and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing requirements.
- 2. **New limits:** Indicate whether or not any new compliance demonstration elements are being proposed in this section for purposes of Federal Enforceability or restriction on emissions. If so, identify these new limits.
- 3. **Monitoring:** List any physical instrumentation required by regulations or licensing, such as fuel meters, opacity meters and recorders, temperature chart recorders, etc. For each instrument, there must be a corresponding limit or range listed under Part II Applicable Requirements/Limits .
- 4. **Record keeping:** List all required record keeping and attach examples to this application.
- 5. **Reporting:** List all reporting requirements for the Emission Unit including routine reporting (such as monthly, yearly) and non-routine (such as notification of process upset, control equipment failure, etc.).
- 6. **Testing:** List all testing requirements including methods and frequency. Include emission (stack) testing requirements as well as routine testing for items such as combustion efficiency, etc.
- 7. **Enhanced monitoring:** Indicate if the enhanced monitoring provisions of 40 CFR 64 are applicable to the Emission Unit and attach a protocol, if applicable.

INSTRUCTIONS FOR SECTION F PROCESS EQUIPMENT

Section F asks for information that describes the Emission Unit and requirements/limits on the unit. This information is used to determine the applicability of the unit to regulations and also becomes the description of the approved unit.

Section F is divided into three (3) parts:

- I. Equipment Description**
- II. Applicable Requirements/Limitations**
- III. Compliance Demonstration**

Except as described in the instructions for parts II and III, none of these questions are intended to impose additional requirements on the Emission Unit; they are merely descriptions of the type and size of the Emission Unit and existing requirements. If a question is not relevant enter "**not applicable**" in the space provided.

One of these sections (comprised of three parts) must be completed for **EACH** individual Emission Unit listed in the Plant Overview (Section B). Make as many copies of the appropriate sections as necessary. Use a separate copy of the section for each Emission Unit.

For process Emission Units that also have a fuel component (drying oven, process heater, etc.) also complete that section. Do not use this section for fuel burning equipment not integral to a process, such as a boiler, engine, etc. or for air pollution control equipment. Instead complete the section for Fuel Utilization Equipment (Section E). This section also contains a section for associated chemicals used in the process, such as outersole cementing, dyes, etc.

Section F : I. Equipment Description

Emission Unit Number: Indicate the Emission Unit number described by this section. The Emission Unit number must correspond to the numbers listed in Section B - Plant Overview. This appears at the top of each page in this section and is to be filled in.

1. **Type of Equipment:** Describe the type of process equipment (i.e. paper coater, degreaser, etc.).
2. **Manufacturer:** Manufacturer of the unit.
3. **Model number:** The manufacturer's model number for the unit. Do not use the serial number.
4. **Maximum Process Rate:** Indicate the maximum design rating for the unit in terms of Raw Materials and Finished Materials.
 - A. **Raw Materials:** Identify raw materials, especially any chemicals or coatings and provide:

Name of Raw Material: Identify the raw material by type, such as paper, rolled steel, organic coating, etc.

Rate: Indicate the maximum design rate of the equipment in using this material. For example, 1.2 gallons per hour of coating, 1,000 feet per minute of paper, etc.
 - B. **Finished Materials:** Identify finished materials and provide:

Name of Finished Material: Identify the finished material.

Rate: Indicate the maximum design rate of the equipment in producing this material. For example, 1,000 feet per minute of printed paper, 100 lbs per hour of chemical xyz, etc.
5. **Air pollution control equipment:** For any air pollution control equipment associated with this Emission Unit, provide:
 - A. **Type:** For example, electrostatic precipitator, baghouse, cyclone, scrubber, afterburner, adsorber. etc.
 - B. **Manufacturer/model:** Manufacturer and model of the control equipment.
 - C. **Pollutant Controlled:** The pollutant(s) that are controlled, for example, Particulate Matter (PM), VOC, Oxides of Nitrogen (NOx), etc.

D. **Efficiency:**

Capture Efficiency: From 0 to 100%, indicate the minimum percent of total emissions from the Emission Unit that must be captured by the ventilation/duct system and conveyed to the control equipment, as required by license, design or other requirement.

Control Efficiency: From 0 to 100%, indicate the minimum percent of emissions conveyed to the control equipment that must be reduced by the control equipment, as required by license, design or other requirement.

6. **Dates:**

Date of installation: Date or dates when the Emission Unit and/or control equipment was installed. Include day, month and year, if known.

Date of Manufacture: Date when the Emission Unit and/or control equipment was manufactured. Include day, month and year, if known.

7. **Stack data:** For the stack (if any) discharging to the ambient air provide;

A. **Dimensions:**

Height (feet): Height, above ground level (AGL), of the top of the stack.

Diameter (inches): Give the inside diameter (ID) of the stack at its exit point. If the stack is not circular give the inside length and width of the stack at the exit point.

B. **Range of gas exit velocity (fps):** The range of exhaust exit velocity from the stack.

C. **Range of exit temperature (°F):** The range of temperature of the exhaust from the stack.

D. **Stack material of construction:** Material of construction for the stack (steel, refractory lined brick, etc.).

8. **Associated Fuel Burning Equipment**

- A. **Type of equipment:** Describe the type of combustion equipment (i.e. boiler, diesel engine, etc.).
- B. **Manufacturer:** Manufacturer of the unit.
- C. **Model number:** The manufacturer's model number for the unit. Do not use the serial number.
- D. **Maximum input rating:** Indicate the maximum design input rating for the unit in MMBtu per hour.
- E. **Burner manufacturer:** Manufacturer of the burner.
- F. **Model number:** The manufacturer's model number for the burner. Do not use the serial number.
- G. **Number of burners in combustion unit:** Indicate how many burners are present in the unit.
- H. **Fuels:** For the primary and any secondary fuels used in the Emission Unit, provide:
 - 1. **Type and grade:** Indicate if oil, natural gas, propane, coke, wood, anthracite coal, waste oil, waste solvent, etc. Also indicate grade of oil, #2, #4, #6, etc. Information may be obtained from supplier.
 - 2. **Sulfur content:** Maximum percentage of sulfur (by weight) possible in the fuel used for this unit. Do not indicate the average sulfur content of fuel supplied in this question. For example, No. 6 fuel oil can have up to 1.0% sulfur in some cases, though the average percent sulfur of the fuel supplied to the facility may be under 0.9%.
 - 3. **Maximum fuel firing rate:** The maximum fuel firing rate for all burners in this unit combined (per hour). Be sure to include units (gal./hr, cubic feet/hr, ton/hr, etc.).

9. Associated Chemical Usage

Fill in this section for **EACH** chemical compound used in the process that contributes to air emissions listed under Section F. Make as many copies of this section as necessary. Use a separate copy of the section for each chemical compound.

- A. **Process:** Describe the process in which the chemical is used.
- B. **Chemical Compound Used in the Process:** List the chemical used by name (trade name if appropriate).
- C. **Actual Usage:** Note the current average annual usage in gallons or pounds.
- D. **Hazardous Chemical(s) Within the Chemical Compound:** List any hazardous chemicals present in the chemical compound used in the process.

CAS Number: List the CAS Number for the hazardous chemicals present in the chemical compound used in the process.
- E. **Percentage VOC:** List the percentage of VOC present in the chemical compound. Specify units (by weight or volume).
- F. **Percentage HAP:** List the percentage Hazardous Air Pollutants in the chemical compound (per the list of 189 Hazardous Air Pollutants in the Clean Air Act). Specify units.
- G. **Total VOC:** List the total amount of VOC emitted by this chemical based on current average annual usage (lb/year).

Section F : II. and III. Applicable Requirements/Limitations and Compliance Demonstration

In this section, provide information related to regulations/limitations and monitoring and record keeping affecting the Emission Unit. In addition to limits in any existing license for the unit, limits may be found in a regulation or other requirements.

None of these questions are intended to impose additional requirements on the Emission Unit except as provided for under Operational Flexibility, New Restrictions or Federally Enforceable Limits. If a question is not relevant enter "**not applicable**" in the space provided. If there is no limit imposed on the Emission Unit, do not enter one here unless you wish to propose one.

Operational Flexibility

To allow for flexible operations, the facility may propose alternative limits in this section, that is, limits that are different from those contained in an existing license or requirement. The DEP will review these alternative limits on a case by case basis for approval. At a minimum, the alternative limits must be equivalent to the existing requirements in terms of resulting emissions and degree of monitoring. Any alternative or flexible limit should be identified as such in the application to distinguish them from current requirements. Some examples of flexible limits are:

- Change in allowable hours of operation from daily limits to an equivalent weekly total;
- Change of an existing license condition that requires the use of a named coating (Brand xyz) to a generic condition that allows use of any coating with the same or less VOC content as Brand xyz.

The DEP reserves the right to deny any such alternative limitations.

Federally Enforceable Limits

Current limits on an Emission Unit or facility may be found unenforceable due to the nature of the limit, the method of limitation or the monitoring of the limit. Common examples include:

- Too long an averaging time; for example, a limit expressed on a yearly instead of 12 month rolling average;
- A limit with no monitoring or record keeping requirement;

- A limit on emissions that cannot be easily verified.

In such cases, the existing limit may have to be modified to remedy such a deficiency. Such modifications, however, will be done to achieve an equivalent, but federally enforceable, limit.

You may propose revised limits for purposes of federal enforceability. Otherwise the Department, as part of its review of your application, will identify those limits that need revision which can then be addressed by the facility in a revision to the application under review.

Refer to the definition of Potential to Emit in DEP regulations for further information on acceptable limitations.

New Restrictions

Facilities are allowed to propose new limitations/restrictions that would establish lower allowable emissions. Such restrictions may be desired to avoid applicability to some regulations or for other reasons.

The DEP reserves the right to deny any such new restriction and to take appropriate enforcement action against the facility if the restriction was required before the submittal of the application in order to comply with other air pollution control requirements.

II. Applicable Requirements/Limitations

1. **Alternative/flexible limits:** Indicate whether or not any alternative limits are being proposed in this section for purposes of operational flexibility. If so, identify these alternative limits and, if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing limits.
2. **New limits:** Indicate whether or not any new limits are being proposed in this section for purposes of Federal Enforceability or restriction of emissions. If so, identify these new limits.
3. **List applicable requirements:** List all requirements that apply to this Emission Unit. Indicate whether the requirement is State or Federal by denoting (S) or (F).

Note: As an attachment list all applicable requirements for which the facility is not subject to for purposes of seeking a Permit Shield.

4. **Allowable usage limitations:** List all limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Hours of operation:** Indicate any limits on hours of operation. If no limitations exists, enter "**not applicable.**"

B. **Fuels Used:** Indicate any limits on fuel use. Provide:

Type: Type of fuel limited (#2 oil, natural gas, etc.).

Amount: The amount of the limit, such as 10,000 gallons per year, etc.

Sulfur: The maximum sulfur content, if any, allowed in the fuel under this limit (weight percent).

5. **Other allowable restrictions:** List all other limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Work practices:** List all limits/requirements such as clean up procedures, start up and shut down procedures, etc.

B. **Process parameters:** List all limitations or restrictions such as process temperatures and other parameters, opacity limits, etc.

C. **Control equipment parameters:** list all control equipment limits such as operating parameters (temperature, pressure drop, etc.).

6. **Total allowable emissions:** List allowable emission rates and total emissions from the Emission Unit. List only for those pollutants which have a limit specifically stated in an existing license or requirement (i.e. the table need not necessarily be completed for all pollutants). If more than one Emission Unit is included in this allowable rate, note in the margins of the application which units are included.

A. **Performance Standard:** For each pollutant, list any limit on emission rate such as, lbs per million Btu, ppm, gr/dscf, etc. Be specific in type and limit on the amount to include diluent gas (% corrected to), wet or dry basis and mass or volume basis.

- B. **Mass Emission Rate:** For each pollutant list any limit on emissions less than 12 month, such as a lbs per hour, day or month limit. Be specific in type and limit on the amount.
- C. **Annual:** For each pollutant list any limit on emissions for a 12 month period. Indicate if this is an annual, rolling 12 month or other limit. Be specific in type and limit on the amount.

III. Compliance Demonstration

- 1. **Alternative/flexible limits:** Indicate whether or not any alternative compliance demonstration is being proposed in this section for purposes of operational flexibility. If so, identify these alternatives and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing requirements.
- 2. **New limits:** Indicate whether or not any new compliance demonstration elements are being proposed in this section for purposes of Federal Enforceability or restriction on emissions. If so, identify these new limits.
- 3. **Monitoring:** List any physical instrumentation required by regulations or licensing, such as fuel meters, opacity meters and recorders, temperature chart recorders, etc. For each instrument, there must be a corresponding limit or range listed under Part II - Applicable Requirements/Limits .
- 4. **Record keeping:** List all required record keeping and attach examples to this application.
- 5. **Reporting:** List all reporting requirements for the Emission Unit including routine reporting (such as monthly, yearly) and non-routine (such as notification of process upset, control equipment failure, etc.)
- 6. **Testing:** List all testing requirements including methods and frequency. Include emission (stack) testing requirements as well as routine testing for items such as combustion efficiency, etc.
- 7. **Enhanced monitoring:** Indicate if the enhanced monitoring provisions of 40 CFR 64 are applicable to the Emission Unit and attach a protocol, if applicable.

INSTRUCTIONS FOR SECTION G INCINERATORS

Section G asks for information that describes the Emission Unit and requirements/limits on the unit. This information is used to determine the applicability of the unit to regulations and also becomes the description of the approved unit.

Section G is divided into three (3) parts:

- I. Equipment Description**
- II. Applicable Requirements/Limitations**
- III. Compliance Demonstration**

Except as described in the instructions for parts II and III, none of these questions are intended to impose additional requirements on the Emission Unit; they are merely descriptions of the type and size of the Emission Unit and existing requirements. If a question is not relevant enter "**not applicable**" in the space provided.

One of these sections (comprised of three parts) must be completed for **EACH** individual Emission Unit listed in the Plant Overview (Section B). Make as many copies of the appropriate sections as necessary. Use a separate copy of the section for each Emission Unit.

Do not use this section for the add-on air pollution control equipment often referred to as an afterburner.

Section G : I. Equipment Description

Emission Unit number: Indicate the Emission Unit number described by this section. The Emission Unit number must correspond to the numbers listed in Section B - Plant Overview. This appears at the top of each page of the section and is to be filled in.

1. **Incinerator type:** Describe the type of incinerator (i.e. medical waste, municipal solid waste, sewage sludge, etc.).
2. **Manufacturer:** Manufacturer of the incinerator.
3. **Model number:** The manufacturer's model number for the incinerator. Do not use the serial number.

4. **Maximum operating capacity:** Indicate the maximum design input rating for the unit in pounds of waste charged per hour.
5. **Waste type:** Type of waste burned in unit. Identify any specific chemicals/materials and generic description such as pathological, infectious, municipal solid waste, sewage sludge, etc. List waste type category according to the definition in Maine Air Regulations Chapter 100 (i.e. I, II, III, etc.).
6. **Charging rate:** For units that are not continuous feed, indicate the maximum frequency (batches per hour) of charges and maximum size (in pounds per batch). If continuous feed enter "**not applicable.**"
7. **Heat recovery:** Indicate if the incinerator is equipped with a heat recovery unit of any type, internal or external.
8. **Retention Time (sec):** Provide the retention time as specified in an existing license or by the manufacturer.
9. **Automatic feeder:** Indicate if the unit has an automatic or manual feed system.
10. **Temperature range (°F):** Indicate the temperature operating range for the primary and secondary chambers.
11. **Auxiliary burners:** For any auxiliary burners in the primary or secondary (afterburner) chamber provide the following:
 - A. **Manufacturer:** Manufacturer of the burner.
 - B. **Model number:** The manufacturer's model number for the burner. Do not use the serial number.
 - C. **Type of fuel:** The fuel type and maximum sulfur content, if any (natural gas, #2 fuel, etc.).
 - D. **Maximum rating:** The maximum rating of each burner in Btu per hour.
12. **Air pollution control equipment:** For any air pollution control equipment associated with this Emission Unit, provide:
 - A. **Type:** For example, electrostatic precipitator, baghouse, cyclone, scrubber, afterburner, adsorber, etc.
 - B. **Manufacturer/model:** Manufacturer and model of the control equipment.

C. **Pollutant controlled:** The pollutant(s) that are controlled, for example, Particulate Matter (PM), VOC, Oxides of Nitrogen (NO_x), etc.

D. **Efficiency:**

Capture Efficiency: From 0 to 100%, indicate the minimum percent of total emissions from the Emission Unit that must be captured by the ventilation/duct system and conveyed to the control equipment, as required by license, design or other requirement.

Control Efficiency: From 0 to 100%, indicate the minimum percent of emissions conveyed to the control equipment that must be reduced by the control equipment, as required by license, design or other requirement.

13. **Dates:**

Date of installation: Date or dates when the Emission Unit and/or control equipment was installed. Include day, month and year, if known.

Date of manufacture: Date when the Emission Unit and/or control equipment was manufactured. Include day, month and year, if known.

14. **Stack data:** For the stack (if any) discharging to the ambient air provide;

A. **Dimensions:**

Height (feet): Height, above ground level (AGL), of the top of the stack.

Diameter (inches): Give the inside diameter (ID) of the stack at its exit point. If the stack is not circular give the inside length and width of the stack at the exit point.

B. **Range of gas exit velocity (fps):** The range of exhaust exit velocity from the stack.

C. **Range of exit temperature (°F):** The range of temperature of the exhaust from the stack.

D. **Stack material of construction:** Material of construction for the stack (steel, refractory lined brick, etc.).

Section G : II. and III. Applicable Requirements/Limitations and Compliance Demonstration

In this section, provide information related to regulations/limitations and monitoring and record keeping affecting the Emission Unit. In addition to limits in any approval for the unit, limits may be found in a regulation or other requirements.

None of these questions are intended to impose additional requirements on the Emission Unit except as provided for under Operational Flexibility, New Restrictions or Federally Enforceable Limits. If a question is not relevant enter "**not applicable**" in the space provided. If there is no limit imposed on the Emission Unit, do not enter one here unless you wish to propose one.

Operational Flexibility

To allow for flexible operations, the facility may propose alternative limits in this section, that is, limits that are different from those contained in an existing license or requirement. The DEP will review these alternative limits on a case by case basis for approval. At a minimum, the alternative limits must be equivalent to the existing requirements in terms of resulting emissions and degree of monitoring. Any alternative or flexible limit should be identified as such in the application to distinguish them from current requirements. Some examples of flexible limits are:

- Change in allowable hours of operation from daily limits to an equivalent weekly total;
- Change of an existing license condition that requires the use of a named coating (Brand xyz) to a generic condition that allows use of any coating with the same or less VOC content as Brand xyz.

The DEP reserves the right to deny any such alternative limitations.

Federally Enforceable Limits

Current limits on an Emission Unit or facility may be found unenforceable due to the nature of the limit, the method of limitation or the monitoring of the limit. Common examples include:

- Too long an averaging time; for example, a limit expressed on a yearly instead of 12 month rolling average;
- A limit with no monitoring or record keeping requirement;

- A limit on emissions that cannot be easily verified.

In such cases, the existing limit may have to be modified to remedy such a deficiency. Such modifications, however, will be done to achieve an equivalent, but federally enforceable, limit.

You may propose revised limits for purposes of federal enforceability. Otherwise the Department, as part of its review of your application, will identify those limits that need revision which can then be addressed by the facility in a revision to the application under review.

Refer to the definition of Potential to Emit in DEP regulations for further information on acceptable limitations.

New Restrictions

Facilities are allowed to propose new limitations/restrictions that would establish lower allowable emissions. Such restrictions may be desired to avoid applicability to some regulations or for other reasons.

The DEP reserves the right to deny any such new restriction and to take appropriate enforcement action against the facility if the restriction was required before the submittal of the application in order to comply with other air pollution control requirements.

II. Applicable Requirements/Limitations

1. **Alternative/flexible limits:** Indicate whether or not any alternative limits are being proposed in this section for purposes of operational flexibility. If so, identify these alternative limits and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing limits.
2. **New limits:** Indicate whether or not any new limits are being proposed in this section for purposes of Federal Enforceability or restriction of emissions. If so, identify these new limits.
3. **List applicable requirements:** List all requirements that apply to this Emission Unit. Indicate whether the requirement is State or Federal by denoting (S) or (F).

Note: As an attachment list all applicable requirements for which the facility is not subject to for purposes of seeking a Permit Shield.

4. **Allowable usage limitations:** List all limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or average" operation.
- A. **Hours of operation:** Indicate any limits on hours of operation. If no limitations exists, enter "**not applicable.**"
- B. **Fuels used:** Indicate any limits on fuel use. Provide:
- Type:** Type of fuel limited (#2 oil, natural gas, etc.)
- Amount:** The amount of the limit, such as 10,000 gallons per year, etc.
- Sulfur:** The maximum sulfur content, if any, allowed in the fuel under this limit (weight percent).
5. **Other allowable restrictions:** List all other limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.
- A. **Work practices:** List all limits/requirements such as clean up procedures, start up and shut down procedures, etc.
- B. **Process parameters:** List all limitations or restrictions such as process temperatures and other parameters, opacity limits, etc.
- C. **Control equipment parameters:** List all control equipment limits such as operating parameters (temperature, pressure drop, etc.).
6. **Total allowable emissions:** List allowable emission rates and total emissions from the Emission Unit. List only for those pollutants which have a limit specifically stated in an existing license or requirement (i.e. the table need not necessarily be completed for all pollutants). If more than one Emission Unit is included in this allowable rate, note in the margins of the application which units are included.
- A. **Performance Standard:** For each pollutant, list any limit on emission rate such as, lbs per million Btu, ppm, gr/dscf, etc. Be specific in type and limit on the amount to include diluent gas (% corrected to), wet or dry basis and mass or volume basis.

- B. **Mass Emission Rate:** For each pollutant list any limit on emissions less than 12 month, such as a lbs per hour, day or month limit. Be specific in type and limit on the amount.
- C. **Annual:** For each pollutant list any limit on emissions for a 12 month period. Indicate if this is an annual, rolling 12 month, or other limit. Specify type and limit on the amount.

III. Compliance Demonstration

1. **Alternative/flexible limits:** Indicate whether or not any alternative compliance demonstration is being proposed in this section for purposes of operational flexibility. If so, identify these alternatives and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing requirements.
2. **New limits:** Indicate whether or not any new compliance demonstration elements are being proposed in this section for purposes of Federal Enforceability or restriction on emissions. If so, identify these new limits.
3. **Monitoring:** List any physical instrumentation required by regulations or licensing, such as fuel meters, opacity meters and recorders, temperature chart recorders, etc. For each instrument, there must be a corresponding limit or range listed under Part II - Applicable Requirements/Limits.
4. **Record keeping:** List all required record keeping and attach examples to this application.
5. **Reporting:** List all reporting requirements for the Emission Unit including routine reporting (such as monthly, yearly) and non-routine (such as notification of process upset, control equipment failure, etc.).
6. **Testing:** List all testing requirements including methods and frequency. Include emission (stack) testing requirements as well as routine testing for items such as combustion efficiency, etc.
7. **Enhanced monitoring:** Indicate if the enhanced monitoring provisions of 40 CFR 64 are applicable to the Emission Unit and attach a protocol, if applicable.

INSTRUCTIONS FOR SECTION H LIQUID ORGANIC MATERIAL STORAGE

Section H asks for information that describes the Emission Unit and requirements/limits on the unit. This information is used to determine the applicability of the unit to regulations and also becomes the description of the approved unit.

Section H is divided into three (3) parts:

- I. Equipment Description**
- II. Applicable Requirements/Limitations**
- III. Compliance Demonstration**

Except as described in instructions for parts II and III, none of these questions are intended to impose additional requirements on the Emission Unit; they are merely descriptions of the type and size of the Emission Unit and existing requirements. If a question is not relevant enter "**not applicable**" in the space provided.

One of these sections (comprised of three parts) must be completed for **EACH** individual Emission Unit listed in the Plant Overview (Section B). Make as many copies of the appropriate sections as necessary. Use a separate copy of the section for each Emission Unit.

Section H : I. Equipment Description

Emission Unit number: Indicate the Emission Unit number described by this section. The Emission Unit number must correspond to the numbers listed in Section B - Plant Overview. This appears at the top of each page in the section and is to be filled in.

1. Identify if **Above Ground** or **Below Ground** storage.
2. **Type:** Identify the type of tank design, (i.e. riveted, bolted, fixed roof, internal floating roof, etc.).
3. **Physical description:** Provide:

Age: Number of years the tank has existed.

Color: Color of the tank and its condition, (i.e. white with light rust).
4. **Dimensions:** Give the dimensions of the tank, specifically:

Height (feet): Give the height of the tank.

Diameter (feet): Give the diameter of the tank.

5. **Capacity (gallons):** Identify the maximum amount of liquid capable of being stored in the tank.
6. **Construction type:** Material tank is constructed of (ex: steel, fiberglass, etc.).
7. **Material stored:** Identify all materials that are ever stored in the tank. Provide:
 - A. **Name:** The specific type of organic material(s) being stored, (i.e., alcohol is not a sufficient description - methanol, isopropanol, ethanol, etc. is required). If the material is a combination of organics, identify components as much as possible; for example, fuels can be specified by type and grade.
 - B. **Vapor pressure and temperature:** The vapor pressure (psia) of the material being stored at the storage temperature. Also indicate storage temperature.
 - C. **RVP:** For gasoline only, specify the RVP of the material.
 - D. **Total oxygen content:** For oxygenated gasoline, specify the total oxygen content (percent by weight) in the fuel.
 - E. **Oxygenate name:** For oxygenated gasoline, specify the name of the oxygenate(s) in the fuel.
 - F. **Annual throughput:** Give the highest yearly throughput, in gallons, for the material stored in the tank.
8. **Loading/transferring:** Indicate if organic material is transferred to or from the tank by any of the methods listed.
9. **Air pollution control equipment:** For any air pollution control equipment associated with this Emission Unit, provide
 - A. **Type:** For example, floating roof, carbon adsorption, thermal oxidizer, etc.
 - B. **Manufacturer/model:** Manufacturer and model of the control equipment.

C. **Pollutant controlled:** The pollutant(s) that are controlled, for example, Particulate Matter (PM), VOC, Oxides of Nitrogen (NO_x), etc.

D. **Efficiency:**

Capture efficiency: From 0 to 100% (or mg/l), indicate the minimum percent of total emissions from the Emission Unit that must be captured by the ventilation/duct system and conveyed to the control equipment, as required by license, design or other requirement.

Control efficiency: From 0 to 100% (or mg/l), indicate the minimum percent of emissions conveyed to the control equipment that must be reduced by the control equipment, as required by license, design or other requirement.

10. **Dates:**

Date of installation: Date or dates when the Emission Unit and/or control equipment was installed. Include day, month and year, if known.

Date of manufacture: Date when the Emission Unit and/or control equipment was manufactured. Include day, month and year, if known.

11. **Stack data:** For the stack (if any) discharging to the ambient air provide;

A. **Dimensions:**

Height (feet): Height, above ground level (AGL), of the top of the stack.

Diameter (inches): Give the inside diameter (ID) of the stack at its exit point. If the stack is not circular give the inside length and width of the stack at the exit point.

B. **Range of gas exit velocity (fps):** The range of exhaust exit velocity from the stack.

C. **Range of exit temperature (°F):** The range of temperature of the exhaust from the stack.

D. **Stack material of construction:** Material of construction for the stack (steel, refractory lined brick, etc.).

Section H : II. and III. Applicable Requirements/Limitations and Compliance Demonstration

In this section, provide information related to regulations/limitations and monitoring and record keeping affecting the Emission Unit. In addition to limits in any approval for the unit, limits may be found in a regulation or other requirements.

None of these questions are intended to impose additional requirements on the Emission Unit except as provided for under Operational Flexibility, New Restrictions or Federally Enforceable Limits. If a question is not relevant enter "**not applicable**" in the space provided. If there is no limit imposed on the Emission Unit, do not enter one here unless you wish to propose one.

Operational Flexibility

To allow for flexible operations, the facility may propose alternative limits in this section, that is, limits that are different from those contained in an existing license or requirement. The DEP will review these alternative limits on a case by case basis for approval. At a minimum, the alternative limits must be equivalent to the existing requirements in terms of resulting emissions and degree of monitoring. Any alternative or flexible limit should be identified as such in the application to distinguish them from current requirements. Some examples of flexible limits are:

- Change in allowable hours of operation from daily limits to an equivalent weekly total;
- Change of an existing license condition that requires the use of a named coating (Brand xyz) to a generic condition that allows use of any coating with the same or less VOC content as Brand xyz.

The DEP reserves the right to deny any such alternative limitations.

Federally Enforceable Limits

Current limits on an Emission Unit or facility may be found unenforceable due to the nature of the limit, the method of limitation or the monitoring of the limit. Common examples include:

- Too long an averaging time; for example, a limit expressed on a yearly instead of 12 month rolling average;
- A limit with no monitoring or recordkeeping requirement;

- A limit on emissions that cannot be easily verified.

In such cases, the existing limit may have to be modified to remedy such a deficiency. Such modifications, however, will be done to achieve an equivalent, but federally enforceable, limit.

You may propose revised limits for purposes of federal enforceability. Otherwise the Department, as part of its review of your application, will identify those limits that need revision which can then be addressed by the facility in a revision to the application under review.

Refer to the definition of Potential to Emit in DEP regulations for further information on acceptable limitations.

New Restrictions

Facilities are allowed to propose new limitations/restrictions that would establish lower allowable emissions. Such restrictions may be desired to avoid applicability to some regulations or other reasons.

The DEP reserves the right to deny any such new restriction and to take appropriate enforcement action against the facility if the restriction was required before the submittal of the application in order to comply with other air pollution control requirements.

II. Applicable Requirements/Limitations

1. **Alternative/flexible limits:** Indicate whether or not any alternative limits are being proposed in this section for purposes of operational flexibility. If so, identify these alternative limits and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing limits.
2. **New limits:** Indicate whether or not any new limits are being proposed in this section for purposes of Federal Enforceability or restriction of emissions. If so, identify these new limits.
3. **List applicable requirements:** List all requirements that apply to this Emission Unit. Indicate whether the requirement is State or Federal by denoting (S) or (F).

Note: As an attachment list all applicable requirements for which the facility is not subject to for purposes of seeking a Permit Shield.

4. **Allowable usage limitations:** List all limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.
- A. **Hours of operation:** Indicate any limits on hours of operation. If no limitations exists, enter "**not applicable.**"
- B. **Fuels used:** Indicate any limits on fuel use. Provide:
- Type:** Type of fuel limited (#2 oil, natural gas, etc.)
- Amount:** The amount of the limit, such as 10,000 gallons per year, etc.
- Sulfur:** The maximum sulfur content, if any, allowed in the fuel under this limit (weight percent).
5. **Other allowable restrictions:** List all other limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.
- A. **Work practices:** List all limits/requirements such as clean up procedures, start up and shut down procedures, etc.
- B. **Process parameters:** List all limitations or restrictions such as process temperatures and other parameters, opacity limits, etc.
- C. **Control equipment parameters:** List all control equipment limits such as operating parameters (temperature, pressure drop, etc.).
6. **Total allowable emissions:** List allowable emission rates and total emissions from the Emission Unit. List only for those pollutants which have a limit specifically stated in an existing license or requirement (i.e. the table need not necessarily be completed for all pollutants). If more than one Emission Unit is included in this allowable rate, note in the margins of the application which units are included.
- A. **Performance Standard:** For each pollutant, list any limit on emission rate such as, lbs per million BTU, ppm, gr/dscf, etc. Be specific in type and limit on the amount to include diluent gas (% corrected to), wet or dry basis and mass or volume basis.
- B. **Mass Emission Rate:** For each pollutant list any limit on emissions less than 12 month, such as a lbs per hour, day or month limit. Be specific in type and limit on the amount.

- C. **Annual:** For each pollutant list any limit on emissions for a 12 month period. Indicate if this is an annual, rolling 12 month or other limit. Be specific in type and limit on the amount.

III. Compliance Demonstration

1. **Alternative/flexible limits:** Indicate whether or not any alternative compliance demonstration is being proposed in this section for purposes of operational flexibility. If so, identify these alternatives and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing requirements.
2. **New limits:** Indicate whether or not any new compliance demonstration elements are being proposed in this section for purposes of Federal Enforceability or restriction on emissions. If so, identify these new limits.
3. **Monitoring:** List any physical instrumentation required by regulations or licensing, such as fuel meters, opacity meters and recorders, temperature chart recorders, etc. For each instrument, there must be a corresponding limit or range listed under Part II - Applicable Requirements/Limitations .
4. **Recordkeeping:** List all required recordkeeping and attach examples to this application.
5. **Reporting:** List all reporting requirements for the Emission Unit including routine reporting (such as monthly, yearly) and non-routine (such as notification of process upset, control equipment failure, etc.)
6. **Testing:** List all testing requirements including methods and frequency. Include emission (stack) testing requirements as well as routine testing for items such as combustion efficiency, etc.
7. **Enhanced monitoring:** Indicate if the enhanced monitoring provisions of 40 CFR 64 are applicable to the Emission Unit and attach a protocol, if applicable.

INSTRUCTIONS FOR SECTION I MISCELLANEOUS (OTHER) EMISSION UNITS

Section I asks for information that describes the Emission Unit and requirements/limits on the unit. This information is used to determine the applicability of the unit to regulations and also becomes the description of the approved unit.

Section I is divided into three (3) parts:

- I. Equipment Description**
- II. Applicable Requirements/Limitations**
- III. Compliance Demonstration**

Except as described in instructions for parts II and III, none of these questions is intended to impose additional requirements on the Emission Unit; they are merely descriptions of the type and size of the Emission Unit and existing requirements. If a question is not relevant enter "**not applicable**" in the space provided.

One of these sections (comprised of three parts) must be completed for **EACH** individual Emission Unit listed in the Plant Overview (Section B). Make as many copies of the appropriate sections as necessary. Use a separate copy of the section for each Emission Unit.

Section I : I. Equipment Description

Emission Unit number: Indicate the Emission Unit number described by this section. The Emission Unit number must correspond to the numbers listed in Section B - Plant Overview. This appears at the top of each page in this section and is to be filled.

1. **Type of Emission Unit:** What is the type of source, such as a landfill, treatment plant or other type of unit not relevant to Sections E through H of this application.
2. **Description of emissions unit:** Describe the unit in terms of size, capacity, operating parameters.
3. **Type of emissions:** List the emissions that result from the Emission Unit, such as VOC, specific chemicals, etc.

4. **Nature of emissions:** Describe how the emissions are generated or associated with the Emission Unit.

5. **Air pollution control equipment:** For any air pollution control equipment associated with this Emission Unit. Provide:

A. **Type:** For example, electrostatic precipitator, baghouse, cyclone, scrubber, afterburner, adsorber, etc.

B. **Manufacturer/model:** Manufacturer and model of the control equipment.

C. **Pollutant controlled:** The pollutant(s) that are controlled, for example, Particulate Matter (PM), VOC, Oxides of Nitrogen (NO_x), etc.

D. **Efficiency:**

Capture efficiency: From 0 to 100%, indicate the minimum percent of total emissions from the Emission Unit that must be captured by the ventilation/duct system and conveyed to the control equipment, as required by license, design or other requirement.

Control efficiency: From 0 to 100%, indicate the minimum percent of emissions conveyed to the control equipment that must be reduced by the control equipment, as required by license, design or other requirement.

6. **Dates:**

Date of installation: Date or dates when the Emission Unit and/or control equipment was installed. Include day, month and year, if known.

Date of Manufacture: Date when the Emission Unit and/or control equipment was manufactured. Include day, month and year, if known.

7. **Stack data:** For the stack (if any) discharging to the ambient air provide;

A. **Dimensions:**

Height (feet): Height, above ground level (AGL), of the top of the stack.

Diameter (inches): Give the inside diameter (ID) of the stack at its exit point. If the stack is not circular give the inside length and width of the stack at the exit point.

- B. **Range of gas exit velocity (fps):** The range of exhaust exit velocity from the stack.
- C. **Range of exit temperature (°F):** The range of temperature of the exhaust from the stack.
- D. **Stack material of construction:** Material of construction for the stack (steel, refractory lined brick, etc.).

Section I : II. and III. Applicable Requirements/Limitations and Compliance Demonstration

In this section, provide information related to regulations/limitations and monitoring and record keeping affecting the Emission Unit. In addition to limits in any existing license for the unit, limits may be found in a regulation or other requirements.

None of these questions are intended to impose additional requirements on the Emission Unit except as provided for under Operational Flexibility, New Restrictions or Federally Enforceable Limits. If a question is not relevant enter "**not applicable**" in the space provided. If there is no limit imposed on the Emission Unit, do not enter one here unless you wish to propose one.

Operational Flexibility

To allow for flexible operations, the facility may propose alternative limits in this section, that is, limits that are different from those contained in an existing license or requirement. The DEP will review these alternative limits on a case by case basis for approval. At a minimum, the alternative limits must be equivalent to the existing requirements in terms of resulting emissions and degree of monitoring. Any alternative or flexible limits should be identified as such in the application to distinguish them from current requirements. Some examples of flexible limits are:

- Change in allowable hours of operation from daily limits to an equivalent weekly total;
- Change of an existing license condition that requires the use of a named coating (Brand xyz) to a generic condition that allows use of any coating with the same or less VOC content as Brand xyz.

The DEP reserves the right to deny any such alternative limitations.

Federally Enforceable Limits

Current limits on an Emission Unit or facility may be found unenforceable due to the nature of the limit, the method of limitation or the monitoring of the limit. Common examples include:

- Too long an averaging time; for example, a limit expressed on a yearly instead of 12 month rolling average;
- A limit with no monitoring or recordkeeping requirement;
- A limit on emissions that cannot be easily verified.

In such cases, the existing limit may have to be modified to remedy such a deficiency. Such modifications, however, will be done to achieve an equivalent, but federally enforceable, limit.

You may propose revised limits for purposes of federal enforceability. Otherwise the Department, as part of its review of your application, will identify those limits that need revision which can then be addressed by the facility in a revision to the application under review.

Refer to the definition of Potential to Emit in DEP regulations for further information on acceptable limitations.

New Restrictions

Facilities are allowed to propose new limitations/restrictions that would establish lower allowable emissions. Such restrictions may be desired to avoid applicability to some regulations or for other reasons.

The DEP reserves the right to deny any such new restriction and to take appropriate enforcement action against the facility if the restriction was required before the submittal of the application in order to comply with other air pollution control requirements.

II. Applicable Requirements/Limitations

1. **Alternative/flexible limits:** Indicate whether or not any alternative limits are being proposed in this section for purposes of operational flexibility. If so, identify these alternative limits and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing limits.
2. **New limits:** Indicate whether or not any new limits are being proposed in this section for purposes of Federal Enforceability or restriction of emissions. If so, identify these new limits.
3. **List applicable requirements:** List all requirements that apply to this Emission Unit. Indicate whether the requirement is State or Federal by denoting (S) or (F).

Note: As an attachment list all applicable requirements for which the facility is not subject to for purposes of seeking a Permit Shield.

4. **Allowable Usage limitations:** List all limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Hours of operation:** Indicate any limits on hours of operation. If no limitations exists, enter "**not applicable.**"

B. **Fuels used:** Indicate any limits on fuel use. Provide:

Type: Type of fuel limited (#2 oil, natural gas, etc.).

Amount: The amount of the limit, such as 10,000 gallons per year, etc.

Sulfur: The maximum sulfur content, if any, allowed in the fuel under this limit (weight percent).

5. **Other allowable restrictions:** List all other limitations on the Emission Unit's operation that are required by a regulation or in an existing license. Do not list limitations reflective of "normal" or "average" operation.

A. **Work practices:** List all limits/requirements such as clean up procedures, start up and shut down procedures, etc.

B. **Process parameters:** List all limitations or restrictions such as process temperatures and other parameters, opacity limits, etc.

- C. **Control equipment parameters:** List all control equipment limits such as operating parameters (temperature, pressure drop, etc.).
- 6. **Total allowable emissions:** List allowable emission rates and total emissions from the Emission Unit. List only for those pollutants which have a limit specifically stated in an existing license or requirement (i.e. the table need not necessarily be completed for all pollutants). If more than one Emission Unit is included in this allowable rate, note in the margins of the application which units are included.
 - A. **Performance Standard:** For each pollutant, list any limit on emission rate such as, lbs per million Btu, ppm, gr/dscf, etc. Be specific in type and limit on the amount to include diluent gas (% corrected to), wet or dry basis and mass or volume basis.
 - B. **Mass Emission Rate:** For each pollutant list any limit on emissions less than 12 month, such as a lbs per hour, day or month limit. Be specific in type and limit on the amount.
 - C. **Annual:** For each pollutant list any limit on emissions for a 12 month period. Indicate if this is an annual, rolling 12 month or other limit. Be specific in type and limit on the amount.

III. Compliance Demonstration

- 1. **Alternative flexible limits:** Indicate whether or not any alternative compliance demonstration is being proposed in this section for purposes of operational flexibility. If so, identify these alternatives and if necessary, provide additional supplemental documentation which demonstrates their equivalence to existing requirements.
- 2. **New limits:** Indicate whether or not any new compliance demonstration elements are being proposed in this section for purposes of Federal Enforceability or restriction on emissions. If so, identify these new limits.
- 3. **Monitoring:** List any physical instrumentation required by regulations or licenses, such as fuel meters, opacity meters and recorders, temperature chart recorders, etc. For each instrument, there must be a corresponding limit or range listed under Part II - Applicable Requirements/Limits.
- 4. **Recordkeeping:** List all required recordkeeping and attach examples to this application.

5. **Reporting:** List all reporting requirements for the Emission Unit including routine reporting (such as monthly, yearly) and non-routine (such as notification of process upset, control equipment failure, etc.)
6. **Testing:** List all testing requirements including methods and frequency. Include emission (stack) testing requirements as well as routine testing for items such as combustion efficiency, etc.
7. **Enhanced monitoring:** Indicate if the enhanced monitoring provisions of 40 CFR 64 are applicable to the Emission Unit and attach a protocol, if applicable.

INSTRUCTIONS FOR SECTION J TOTAL FACILITY LIMITS

In this section describe any limits that pertain to the facility as a whole and cannot be attributed to any single group of Emission Units.

1. **Limitations:** List any facility limitations or requirements (such as all tanks covered at all times, fuel throughput limits, etc.).

2. **Compliance demonstration:** List any facility monitoring or recordkeeping requirements (such as annual leak detection and repair program, facility audits, etc.).

3. **Total facility emissions:** For each pollutant emitted at the facility, provide the allowable emissions in tons per year. This should be either (1) the sum of all 12 month emission rates for each Emission Unit, this may include emissions from activities listed under "Insignificant Activities" or (2) an allowable facility limit established in an existing license.

Note: Generally, Insignificant Activities can be assumed to have allowable emissions of less than one ton per year for process Emission Units. Combustion Emission Units need to have allowable emissions calculated based on 100% rated capacity operating 8760 hours per year.

INSTRUCTIONS FOR SECTION K COMPLIANCE PLAN

Complete this section as indicated and attach any additional information as necessary.

- I. **Statement of Compliance:** Check off the statement(s) that apply to the facility applying for this license, more than one statement may be applicable.

- II. **Certification:** A required signature under this section certifies that the information supplied is true, complete and accurate. This statement supersedes that in Maine Administrative Regulations Chapter 2.

A comment section is available for any clarifications that may be necessary.

- III. **Statement of Non-Compliance:** For any emission unit not in compliance check off the statement as it applies. Fill in the emission unit ID number, the requirement to meet compliance, state (R) or (I) to indicate remedial measures or intermediate milestones to meet compliance and state what the measure or milestone may be, and date scheduled to be implemented and compliance met.

For Emission Units indicated as not in compliance, the DEP suggests you investigate the possibility of Pollution Prevention to return the unit to compliance.

Consent Order (if applicable): Fill in the number of the consent order as well as the measures or milestones included within.

Certified Progress Reports (if applicable): Fill in the date at which time six month progress reports are required to begin submittal, in accordance with the Consent Order or other requirement.

A comment section is available for any clarification's that may be necessary.

**INSTRUCTIONS FOR
SECTION L
ATTACHMENTS**

Please check off all attachments that are included in this submittal. These attachments should be clearly labeled and the label noted on this page for reference.

**INSTRUCTIONS FOR
SECTION M
PHASE I SUBMITTAL INFORMATION**

Phase I submittal information is to include Section A, Section B, Section K and Section M of the application form. For Sections A, B and K see the instructions. Section M consists of the following:

- I. **Identification of Regulated Pollutants:** List all regulated pollutants at the facility, including the Chemical Abstract Service (CAS) number. List the quantity in tons per year for each pollutant.

- II. **Identification of Regulated Pollutants:** List all applicable requirements for the facility and a brief description of each requirement as it applies to the facility.

Attach as many copies of this form as necessary.